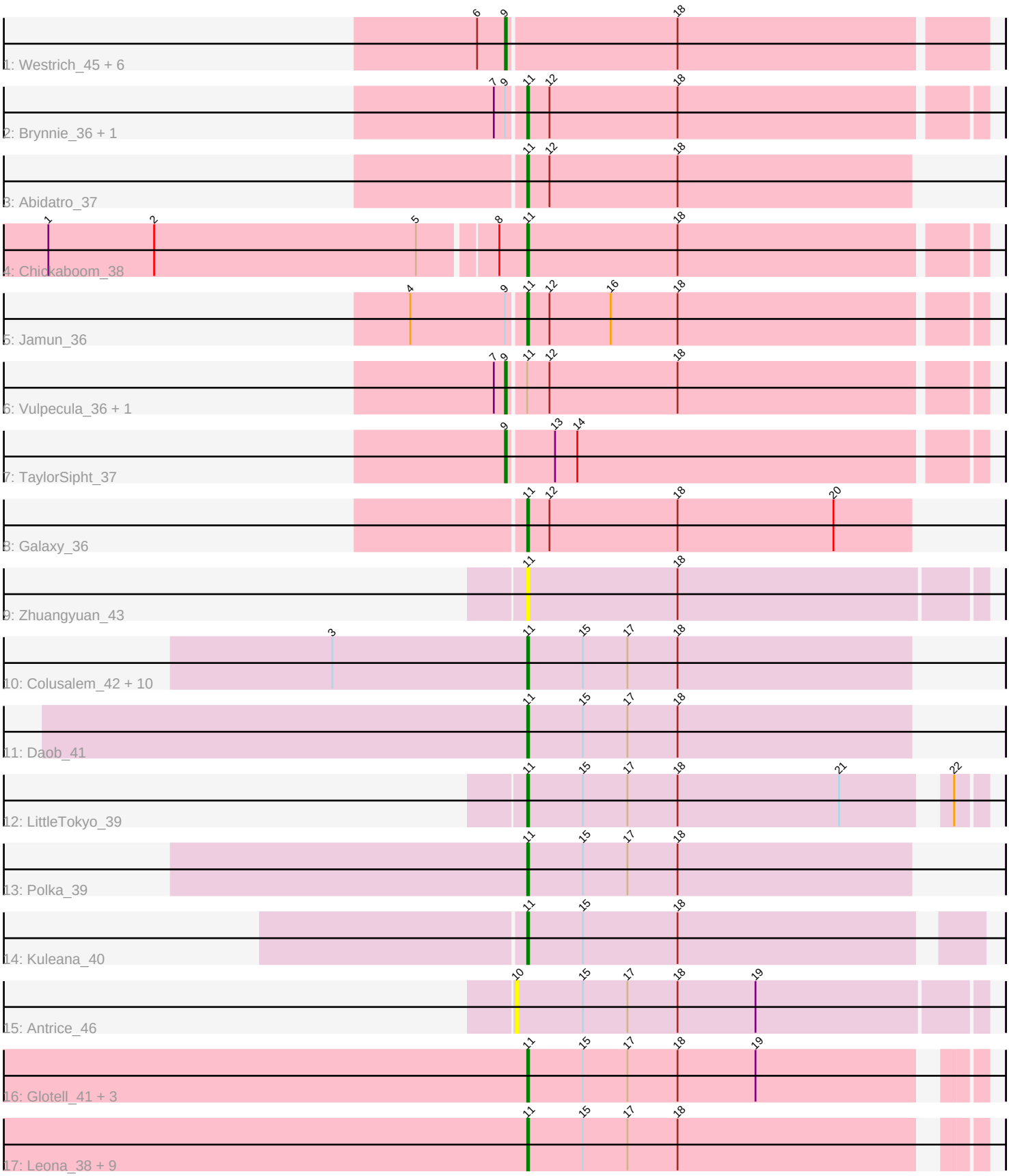
Pham 198035


1: Westrich_45 + 6
2: Brynnie_36 + 1
3: Abidatro_37
4: Chickaboom_38
5: Jamun_36
6: Vulpecula_36 + 1
7: TaylorSipht_37
8: Galaxy_36
9: Zhuangyuan_43
10: Colusalem_42 + 10
11: Daob_41
12: LittleTokyo_39
13: Polka_39
14: Kuleana_40
15: Antrice_46
16: Glotell_41 + 3
17: Leona_38 + 9

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 198035 Report

This analysis was run 01/18/25 on database version 583.

Pham number 198035 has 47 members, 18 are drafts.

Phages represented in each track:
• Track 1 : Westrich_45, Gravel_46, Toad24_39, Orcanus_37, Eesa_36, KendraB23_47, Pelletreau_46
• Track 2 : Brynnie_36, Basilisk_37
• Track 3 : Abidatro_37
• Track 4 : Chickaboom_38
• Track 5 : Jamun_36
• Track 6 : Vulpecula_36, Ruchi_36
• Track 7 : TaylorSipht_37
• Track 8 : Galaxy_36
• Track 9 : Zhuangyuan_43
• Track 10 : Colusalem_42, Amelia_39, Cote_41, Coral_39, Kepler_41, Jerole_49, Bibble12_43, Lunar_41, HannahPhantana_40, Melons_41, Bedetta_44
• Track 11 : Daob_41
• Track 12 : LittleTokyo_39
• Track 13 : Polka_39
• Track 14 : Kuleana_40
• Track 15 : Antrice_46
• Track 16 : Glotell_41, PhluffyCoco_39, HamCheese_38, Rattail_39
• Track 17 : Leona_38, AmiCi24_38, Juno112_38, Atlantica_39, Andrew_40, Camara_39, KHumphrey_39, Renna12_38, StuartMinion_34, RedFox_39

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 11, it was called in 24 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_37, Amelia_39, AmiCi24_38, Andrew_40, Atlantica_39, Basilisk_37, Bedetta_44, Bibble12_43, Brynnie_36, Camara_39, Chickaboom_38, Colusalem_42, Coral_39, Cote_41, Daob_41, Galaxy_36, Glotell_41, HamCheese_38, HannahPhantana_40, Jamun_36, Jerole_49, Juno112_38, KHumphrey_39, Kepler_41, Kuleana_40, Leona_38, LittleTokyo_39, Lunar_41, Melons_41, PhluffyCoco_39, Polka_39, Rattail_39, RedFox_39, Renna12_38, StuartMinion_34, Zhuangyuan_43,

Genes that have the "Most Annotated" start but do not call it:
• Ruchi_36, Vulpecula_36,

Genes that do not have the "Most Annotated" start:
• Antrice_46, Eesa_36, Gravel_46, KendraB23_47, Orcanus_37, Pelletreau_46, TaylorSipht_37, Toad24_39, Westrich_45,

Summary by start number:

Start 9:
• Found in 13 of 47 (27.7%) of genes in pham
• Manual Annotations of this start: 5 of 29
• Called 76.9% of time when present
• Phage (with cluster) where this start called: Eesa_36 (AS1), Gravel_46 (AS1), KendraB23_47 (AS1), Orcanus_37 (AS1), Pelletreau_46 (AS1), Ruchi_36 (AS1), TaylorSipht_37 (AS1), Toad24_39 (AS1), Vulpecula_36 (AS1), Westrich_45 (AS1),

Start 10:
• Found in 1 of 47 (2.1%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antrice_46 (AS2),

Start 11:
• Found in 38 of 47 (80.9%) of genes in pham
• Manual Annotations of this start: 24 of 29
• Called 94.7% of time when present
• Phage (with cluster) where this start called: Abidatro_37 (AS1), Amelia_39 (AS2), AmiCi24_38 (AS3), Andrew_40 (AS3), Atlantica_39 (AS3), Basilisk_37 (AS1), Bedetta_44 (AS2), Bibble12_43 (AS2), Brynnie_36 (AS1), Camara_39 (AS3), Chickaboom_38 (AS1), Colusalem_42 (AS2), Coral_39 (AS2), Cote_41 (AS2), Daob_41 (AS2), Galaxy_36 (AS1), Glotell_41 (AS3), HamCheese_38 (AS3), HannahPhantana_40 (AS2), Jamun_36 (AS1), Jerole_49 (AS2), Juno112_38 (AS3), KHumphrey_39 (AS3), Kepler_41 (AS2), Kuleana_40 (AS2), Leona_38 (AS3), LittleTokyo_39 (AS2), Lunar_41 (AS2), Melons_41 (AS2), PhluffyCoco_39 (AS3), Polka_39 (AS2), Rattail_39 (AS3), RedFox_39 (AS3), Renna12_38 (AS3), StuartMinion_34 (AS3), Zhuangyuan_43 (AS2),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 9 was manually annotated 5 times for cluster AS1.
•Start number 11 was manually annotated 6 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 11 was manually annotated 11 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 11 was manually annotated 7 times for cluster AS3.

Gene Information:

Gene: Abidatro_37 Start: 25098, Stop: 25304, Start Num: 11
Candidate Starts for Abidatro_37:
(Start: 11 @25098 has 24 MA's), (12, 25110), (18, 25179),

Gene: Amelia_39 Start: 24861, Stop: 25067, Start Num: 11
Candidate Starts for Amelia_39:
(3, 24756), (Start: 11 @24861 has 24 MA's), (15, 24891), (17, 24915), (18, 24942),

Gene: AmiCi24_38 Start: 24772, Stop: 25002, Start Num: 11
Candidate Starts for AmiCi24_38:
(Start: 11 @24772 has 24 MA's), (15, 24802), (17, 24826), (18, 24853),

Gene: Andrew_40 Start: 24666, Stop: 24896, Start Num: 11
Candidate Starts for Andrew_40:
(Start: 11 @24666 has 24 MA's), (15, 24696), (17, 24720), (18, 24747),

Gene: Antrice_46 Start: 26009, Stop: 26257, Start Num: 10
Candidate Starts for Antrice_46:
(10, 26009), (15, 26045), (17, 26069), (18, 26096), (19, 26138),

Gene: Atlantica_39 Start: 24774, Stop: 25004, Start Num: 11
Candidate Starts for Atlantica_39:
(Start: 11 @24774 has 24 MA's), (15, 24804), (17, 24828), (18, 24855),

Gene: Basilisk_37 Start: 25576, Stop: 25815, Start Num: 11
Candidate Starts for Basilisk_37:
(7, 25561), (Start: 9 @25567 has 5 MA's), (Start: 11 @25576 has 24 MA's), (12, 25588), (18, 25657),

Gene: Bedetta_44 Start: 25008, Stop: 25214, Start Num: 11
Candidate Starts for Bedetta_44:
(3, 24903), (Start: 11 @25008 has 24 MA's), (15, 25038), (17, 25062), (18, 25089),

Gene: Bibble12_43 Start: 24856, Stop: 25062, Start Num: 11
Candidate Starts for Bibble12_43:
(3, 24751), (Start: 11 @24856 has 24 MA's), (15, 24886), (17, 24910), (18, 24937),

Gene: Brynnie_36 Start: 25454, Stop: 25693, Start Num: 11
Candidate Starts for Brynnie_36:
(7, 25439), (Start: 9 @25445 has 5 MA's), (Start: 11 @25454 has 24 MA's), (12, 25466), (18, 25535),

Gene: Camara_39 Start: 24776, Stop: 25006, Start Num: 11
Candidate Starts for Camara_39:
(Start: 11 @24776 has 24 MA's), (15, 24806), (17, 24830), (18, 24857),

Gene: Chickaboom_38 Start: 25076, Stop: 25315, Start Num: 11
Candidate Starts for Chickaboom_38:
(1, 24824), (2, 24881), (5, 25022), (8, 25061), (Start: 11 @25076 has 24 MA's), (18, 25157),

Gene: Colusalem_42 Start: 24838, Stop: 25044, Start Num: 11

Candidate Starts for Colusalem_42:
(3, 24733), (Start: 11 @24838 has 24 MA's), (15, 24868), (17, 24892), (18, 24919),

Gene: Coral_39 Start: 24709, Stop: 24915, Start Num: 11
Candidate Starts for Coral_39:
(3, 24604), (Start: 11 @24709 has 24 MA's), (15, 24739), (17, 24763), (18, 24790),

Gene: Cote_41 Start: 25186, Stop: 25392, Start Num: 11
Candidate Starts for Cote_41:
(3, 25081), (Start: 11 @25186 has 24 MA's), (15, 25216), (17, 25240), (18, 25267),

Gene: Daob_41 Start: 25194, Stop: 25400, Start Num: 11
Candidate Starts for Daob_41:
(Start: 11 @25194 has 24 MA's), (15, 25224), (17, 25248), (18, 25275),

Gene: Eesa_36 Start: 25937, Stop: 26194, Start Num: 9
Candidate Starts for Eesa_36:
(6, 25922), (Start: 9 @25937 has 5 MA's), (18, 26027),

Gene: Galaxy_36 Start: 24864, Stop: 25070, Start Num: 11
Candidate Starts for Galaxy_36:
(Start: 11 @24864 has 24 MA's), (12, 24876), (18, 24945), (20, 25029),

Gene: Glotell_41 Start: 24932, Stop: 25162, Start Num: 11
Candidate Starts for Glotell_41:
(Start: 11 @24932 has 24 MA's), (15, 24962), (17, 24986), (18, 25013), (19, 25055),

Gene: Gravel_46 Start: 25916, Stop: 26167, Start Num: 9
Candidate Starts for Gravel_46:
(6, 25901), (Start: 9 @25916 has 5 MA's), (18, 26006),

Gene: HamCheese_38 Start: 24760, Stop: 24990, Start Num: 11
Candidate Starts for HamCheese_38:
(Start: 11 @24760 has 24 MA's), (15, 24790), (17, 24814), (18, 24841), (19, 24883),

Gene: HannahPhantana_40 Start: 24856, Stop: 25062, Start Num: 11
Candidate Starts for HannahPhantana_40:
(3, 24751), (Start: 11 @24856 has 24 MA's), (15, 24886), (17, 24910), (18, 24937),

Gene: Jamun_36 Start: 25116, Stop: 25355, Start Num: 11
Candidate Starts for Jamun_36:
(4, 25056), (Start: 9 @25107 has 5 MA's), (Start: 11 @25116 has 24 MA's), (12, 25128), (16, 25161), (18, 25197),

Gene: Jerole_49 Start: 24980, Stop: 25186, Start Num: 11
Candidate Starts for Jerole_49:
(3, 24875), (Start: 11 @24980 has 24 MA's), (15, 25010), (17, 25034), (18, 25061),

Gene: Juno112_38 Start: 24776, Stop: 25006, Start Num: 11
Candidate Starts for Juno112_38:
(Start: 11 @24776 has 24 MA's), (15, 24806), (17, 24830), (18, 24857),

Gene: KHumphrey_39 Start: 24775, Stop: 25005, Start Num: 11

Candidate Starts for KHumphrey_39:
(Start: 11 @24775 has 24 MA's), (15, 24805), (17, 24829), (18, 24856),

Gene: KendraB23_47 Start: 26103, Stop: 26360, Start Num: 9
Candidate Starts for KendraB23_47:
(6, 26088), (Start: 9 @26103 has 5 MA's), (18, 26193),

Gene: Kepler_41 Start: 25604, Stop: 25810, Start Num: 11
Candidate Starts for Kepler_41:
(3, 25499), (Start: 11 @25604 has 24 MA's), (15, 25634), (17, 25658), (18, 25685),

Gene: Kuleana_40 Start: 25028, Stop: 25261, Start Num: 11
Candidate Starts for Kuleana_40:
(Start: 11 @25028 has 24 MA's), (15, 25058), (18, 25109),

Gene: Leona_38 Start: 24847, Stop: 25077, Start Num: 11
Candidate Starts for Leona_38:
(Start: 11 @24847 has 24 MA's), (15, 24877), (17, 24901), (18, 24928),

Gene: LittleTokyo_39 Start: 24706, Stop: 24936, Start Num: 11
Candidate Starts for LittleTokyo_39:
(Start: 11 @24706 has 24 MA's), (15, 24736), (17, 24760), (18, 24787), (21, 24874), (22, 24922),

Gene: Lunar_41 Start: 25520, Stop: 25726, Start Num: 11
Candidate Starts for Lunar_41:
(3, 25415), (Start: 11 @25520 has 24 MA's), (15, 25550), (17, 25574), (18, 25601),

Gene: Melons_41 Start: 25334, Stop: 25540, Start Num: 11
Candidate Starts for Melons_41:
(3, 25229), (Start: 11 @25334 has 24 MA's), (15, 25364), (17, 25388), (18, 25415),

Gene: Orcanus_37 Start: 25466, Stop: 25717, Start Num: 9
Candidate Starts for Orcanus_37:
(6, 25451), (Start: 9 @25466 has 5 MA's), (18, 25556),

Gene: Pelletreau_46 Start: 25916, Stop: 26167, Start Num: 9
Candidate Starts for Pelletreau_46:
(6, 25901), (Start: 9 @25916 has 5 MA's), (18, 26006),

Gene: PhluffyCoco_39 Start: 24772, Stop: 25002, Start Num: 11
Candidate Starts for PhluffyCoco_39:
(Start: 11 @24772 has 24 MA's), (15, 24802), (17, 24826), (18, 24853), (19, 24895),

Gene: Polka_39 Start: 24710, Stop: 24916, Start Num: 11
Candidate Starts for Polka_39:
(Start: 11 @24710 has 24 MA's), (15, 24740), (17, 24764), (18, 24791),

Gene: Rattail_39 Start: 24858, Stop: 25088, Start Num: 11
Candidate Starts for Rattail_39:
(Start: 11 @24858 has 24 MA's), (15, 24888), (17, 24912), (18, 24939), (19, 24981),

Gene: RedFox_39 Start: 24771, Stop: 25001, Start Num: 11
Candidate Starts for RedFox_39:

(Start: 11 @24771 has 24 MA's), (15, 24801), (17, 24825), (18, 24852),

Gene: Renna12_38 Start: 24811, Stop: 25059, Start Num: 11
Candidate Starts for Renna12_38:
(Start: 11 @24811 has 24 MA's), (15, 24841), (17, 24865), (18, 24892),

Gene: Ruchi_36 Start: 25513, Stop: 25761, Start Num: 9
Candidate Starts for Ruchi_36:
(7, 25507), (Start: 9 @25513 has 5 MA's), (Start: 11 @25522 has 24 MA's), (12, 25534), (18, 25603),

Gene: StuartMinion_34 Start: 21830, Stop: 22069, Start Num: 11
Candidate Starts for StuartMinion_34:
(Start: 11 @21830 has 24 MA's), (15, 21860), (17, 21884), (18, 21911),

Gene: TaylorSipht_37 Start: 24886, Stop: 25134, Start Num: 9
Candidate Starts for TaylorSipht_37:
(Start: 9 @24886 has 5 MA's), (13, 24910), (14, 24922),

Gene: Toad24_39 Start: 26156, Stop: 26413, Start Num: 9
Candidate Starts for Toad24_39:
(6, 26141), (Start: 9 @26156 has 5 MA's), (18, 26246),

Gene: Vulpecula_36 Start: 25190, Stop: 25438, Start Num: 9
Candidate Starts for Vulpecula_36:
(7, 25184), (Start: 9 @25190 has 5 MA's), (Start: 11 @25199 has 24 MA's), (12, 25211), (18, 25280),

Gene: Westrich_45 Start: 25840, Stop: 26091, Start Num: 9
Candidate Starts for Westrich_45:
(6, 25825), (Start: 9 @25840 has 5 MA's), (18, 25930),

Gene: Zhuangyuan_43 Start: 25541, Stop: 25783, Start Num: 11
Candidate Starts for Zhuangyuan_43:
(Start: 11 @25541 has 24 MA's), (18, 25622),